Claims

What is claimed is:

1.   A method for packing a Web page as a single file, the method comprising the steps of:

determining that a user desires to package the Web page into a single file;

making a determination as to whether the file is a Web page;

in response to a determination that the file is a Web page, making a determination as to whether the file includes at least one link to at least one resource file; and

in response to a determination that the file includes at least one link to at least one resource file, packing the file and the at least one resource file into a single file;

wherein the step of packing the file and the at least one resource file into a single file comprises the steps of:

storing a main HTML document of the Web page as a first component, the first component having a first content location,

storing the at least one resource file as a second component, the second component having a content location, and

wherein the first content location and the second content location define a folder structure defining locations of the file and the resource file in relation to each other.

2.   The method recited in Claim 1 wherein the single file is an MHTML file.

3.   A computer-readable medium having computer-executable instructions for performing the steps recited in Claim 1.

4.   A computer-implemented method for packing a Web page as a single file comprising the steps of:

5   the Web page;

opening an HTML source file associated with

supporting files;

parsing the HTML source file searching for

gathering a list of supporting files; and

packing the supporting files and the HTML

10   source file into a single file.

5.   The method recited in Claim 4 wherein the single file is a MHTML file.

15   6.   The method recited in Claim 5 wherein the step of packing the supporting files and the HTML source file into a single file comprises:

adding the HTML source file as a main MIME part

20   of the single file; and
adding each supporting file to the single file by assigning each supporting file a content location set to the location of the supporting file.

25   7.   The method recited in Claim 5 wherein the steps of parsing the HTML source file and gathering a list of supporting files comprises gathering a list of all the files necessary to render the Web page.

30   8.   The method recited in Claim 5 wherein the steps of parsing the HTML source file and gathering a list of supporting files comprises:
a)   searching for and adding to the list all "src", "lowsrc" and "dynsrc" files referenced in
35   <img> tags;

b)   searching for and adding to the list all "background" files referenced in <body> tags;

c)   searching for and adding to the list all "src" files referenced in <script> tags;

d)   searching for and adding to the list all "src" files referenced in <bgsound> tags;

e)   searching for and adding to the list all "src" files referenced in <embed> tags;

f)   searching for and adding to the list all "href" files referenced in <link rel="stylesheet"> tags;

        within the "href" files referenced in <link rel="stylesheet"> tags, searching for and adding to the list any "@import url(...)" files;

g)   searching for and adding to the list all "src" files referenced in <frame> tags;

        loading the "src" files referenced in <frame> tags and recursively examining these files according to steps a)-h)

h)   searching for and adding to the list all "href" files referenced in <link rel=filelist> tags; and

        within the "href" files referenced in <link rel=filelist> files, searching for and adding to the list any "Href" files referenced in <o:File> tags.

9. A method for unpacking an MHTML Web page to HTML format comprising the steps of:
        determining a name for a Web page source file;
        determining a location of a supporting file;
        determining whether the location is already in use; and

        if not, then converting each MIME part of the HTML file into an HTML file and saving each part in the HTML file.

10.   A computer-readable medium having computer-

executable instructions for performing the steps recited in Claim 9.

11.   The method recited in Claim 9, wherein the step of determining the name for the Web page source file comprises the steps of:

determining whether a main HTML portion of the MHTML Web page has a content location;

if so, then extracting the leaf name of the main HTML portion and using it as the name for the Web page source file.

12.   The method recited in Claim 9, wherein the step of determining the location of the supporting file comprises the steps of:

determining whether a valid file name for a main HTML portion of the MHTML Web page could be found; and

if not, then locating the supporting file inside a folder named after a name of the MHTML Web page.

13.   The method recited in Claim 9, wherein the step of determining the location of the supporting file comprises the steps of:

determining whether a supporting file has a content location and a file name within the content location; and

if not, then locating the supporting file inside a folder named after a name of the MHTML Web page.

14.   The method recited in Claim 9, wherein the step of determining the location of the supporting file comprises the steps of:

determining whether a content location of the supporting file is in the same folder as the content location of a main HTML portion of the MHTML Web page;

if not, then locating the supporting file inside a folder

named after a name of the MHTML Web page; and

if so, then recreating the folder structure of the supporting file.